AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) A method of displaying files within a file system to a user in a semantic hierarchy, the method comprising the steps of:

mapping the files into a semantic vector space;

clustering the files within said space;

deriving a hierarchy from said clusters; and

displaying the files in a hierarchical format based on ~~the resulting clusters~~ said derived hierarchy.

2. (Original) The method according to claim 1, wherein the step of clustering the files is performed as a background routine during the operation of a computer associated with said file system.

3. (Original) The method according to claim 2, wherein the step of clustering the files is performed in response to the creation of a new file within the file system.

4. (Original) The method according to claim 1, wherein said files are text documents and said mapping is conducted on the basis of a language model.

5. (Original) The method according to claim 4, wherein said mapping step comprises the steps of constructing a matrix which associates each word in the documents with a vector and associates each document with a vector.

6. (Original) The method of claim 5, further including the step of decomposing said matrix to define the words and documents as vectors in a continuous vector space.

7. (Original) The method of claim 5, wherein said clustering is performed by identifying documents whose vectors are within a threshold distance of one another.

8. (Original) The method of claim 7, further including the step of defining multiple threshold values and clustering said documents in accordance with said multiple threshold values to thereby establish plural levels of clusters.

9. (Previously Presented) The method of claim 5 further including the step of automatically labeling the clusters based on the resulting clusters.

10. (Original) The method of claim 9 wherein said labeling comprises selecting representative words based on the closeness of their vectors to the document vectors in a cluster.

11. (Currently Amended) A graphical user interface configured to display files in a virtual file system with a semantic hierarchy~~, wherein the semantic hierarchy is based on clustering of files based on~~ that is derived from semantic similarities of said files.

12. (Canceled)

13. (Previously Presented) The graphical user interface according to claim 11, wherein clustering of the files is initiated by user selection.

14. (Previously Presented) The graphical user interface according to claim 11, wherein clustering of the files is initiated upon creation of a new file in the file system.

15. (Previously Presented) The graphical user interface according to claim 11, wherein text files are clustered utilizing a language model and non-text files are clustered utilizing rule-based techniques.

16. (Original) The graphical user interface according to claim 15, wherein said language model comprises the LSA paradigm.

17. (Previously Presented) Computer readable media having stored therein computer executable code for analyzing files in a file system to determine similarities in data pertaining to their content, determining a directory structure based on

determined similarities between the files, and displaying files in hierarchical format based on the determined similarities between the files.

18. (Original) The computer-readable media of claim 17 wherein said files are text documents, and the similarities are based upon the word content of the files.

19. (Original) The computer-readable media of claim 18 wherein said similarities are determined in accordance with a language model, and the files are clustered in accordance with said model.

20. (Original) The computer-readable media of claim 19, wherein said language model comprises the LSA paradigm.

21. (Previously Presented) The computer-readable media of claim 19, wherein said computer-executable code performs the steps of constructing a matrix which associates each word in the documents with a vector and associates each document with a vector.

22. (Original) The computer-readable media of claim 21, wherein said computer-executable code further performs step of decomposing said matrix to define the words and documents as vectors in a continuous vector space.

23. (Original) The computer-readable media of claim 22, wherein said computer-executable code performs clustering by identifying documents whose vectors are within a threshold distance of one another.

24. (Original) The computer-readable media of claim 23, wherein said computer-executable code further performs step of clustering said documents in accordance with multiple threshold values to thereby establish plural levels of clusters.

25. (Previously Presented) The computer-readable media of claim 19, wherein said computer-executable code performs step of automatically labeling the clusters based on the resulting clusters.

26. (Original) The computer-readable media of claim 25, wherein said labeling comprises selecting representative words based on the closeness of their vectors to the document vectors in a cluster.

27. (Previously Presented) The computer readable media according to claim 17, wherein the computer executable code performs the following steps:

clustering text files within the file system using semantic similarities;

clustering non-text files within the files system using rule-based techniques;

labeling the resulting clusters; and

displaying the files in a hierarchical format based on the resulting clusters and labels.

28. (Currently Amended) A computer system, comprising:

a file system storing files;

a display device;

a processor for analyzing the content of files stored in said file system to map said files into a semantic vector space, ~~and~~ cluster the files within said space, and derive a hierarchy from said clusters; and

a user interface which displays representations of files stored in said file system in the form of ~~a semantic~~ said derived hierarchy ~~that is based upon the content of said files, wherein said user interface displays said files in accordance with said clustering~~.

29. (Canceled)

30. (Previously Presented) The computer system of claim 28, wherein said files are text documents and said processor maps said files on the basis of a language model.

31. (Original) The computer system of claim 30 wherein said processor constructs a matrix which associates each word in the documents with a vector and associates each document with a vector.

32. (Original) The computer system of claim 31 wherein said processor further decomposes said matrix to define the words and documents as vectors in a continuous vector space.

33. (Original) The computer system of claim 31, wherein said processor clusters the files by identifying documents whose vectors are within a threshold distance of one another.

34. (Original) The computer system of claim 33, wherein said processor clusters said files in accordance with multiple threshold values to thereby establish plural levels of clusters.

35. (Currently Amended) The computer system of claim 31, wherein said processor automatically labels the clusters based on the resulting clusters.

36. (Original) The computer system of claim 35 wherein said processor labels the clusters by selecting representative words based on the closeness of their vectors to the document vectors in a cluster.

37. (Currently Amended) The method according to claim 1, wherein ~~clustering~~ said deriving step includes organizing the clusters into a hierarchical directory structure.

38. (Currently Amended) A method of organizing a plurality of documents, comprising:

mapping all words of the plurality of documents and the plurality of documents in a semantic vector space;

~~clustering the plurality of documents to a plurality of clusters based on semantic similarities of the plurality of documents~~generating a plurality of clusters based on the semantic similarities of the plurality of documents;

organizing the plurality of clusters into directories in a hierarchical format; and

~~outputting~~displaying the plurality of documents in **[[a]]** said hierarchical format based on a result of clustering the plurality of documents.

39. - 47. (Canceled)